

ABSTRACT

A spindle unit comprises a rolling bearing including an outer ring having an outer ring raceway on an inner peripheral surface, an inner ring having an inner ring raceway on an outer peripheral surface, and rolling elements provided rollably between the outer ring raceway and the inner ring raceway, whereby a spindle is borne rotatably in a housing, and a grease supply system for supplying a grease to an inside of the rolling bearing, wherein the grease supply system supplies the grease such that a supply amount in one shot is set to 0.004 cc to 0.1 cc.

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